

Notice of Allowability

Application No.

09/643,800

Applicant(s)

KAWASE ET AL.

Examiner

Art Unit

Nelson D. Hernandez

2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 1-5 and 7-17.
3. ☒ The drawings filed on 22 August 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Response to Amendment

1. Examiner acknowledges the amendments made on the claims. Claim 6 has been canceled.

Response to Arguments

2. Applicant's arguments, see page 9, lines 13-22, filed on October 15, 2004, with respect to claim 6 have been fully considered and are persuasive. Examiner noticed the translation of the application JP 11-237061 submitted on October 15, 2004 to obviate the rejection made on claim 6 now incorporated in amended claim 1 now incorporated in amended claim 1 with Ogata, US Patent with filing date of November 17, 1999. Examiner acknowledges that the subject matter in claim 1 as amended is supported by the disclosure of JP 11-237061.

Allowable Subject Matter

3. Claims **1-5** and **7-17** are allowed.
4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding **claim 1**, the primary reason for indication of allowable subject matter is that the prior art fails to teach or reasonably suggest an interpolation coefficient table storing an interpolation coefficient; a correction section for correcting the interpolation position so as to correspond to the interpolation coefficient; and an interpolation calculation section for interpolating the pixel using the interpolation coefficient for the corrected interpolation position.

Art Unit: 2612

Yamada discloses an electronic camera (First embodiment, Fig. 1) comprising: an image-sensing unit (Fig. 1: 2) for electronically sensing an object image and outputting image data of the object image; a memory unit (Fig. 1: 4) for storing the image data output from said image sensing unit; an image processing unit (Fig. 1: 5) for performing predetermined image processing based on the image data stored in said memory unit; an interpolation calculation circuit (Fig. 1: 6) for interpolating a pixel whose data is not present in the image data after image processing by said image processing unit by interpolation calculation based on an approximate expression including a polynomial of at least 3rd-order (Col. 7, line 66 – col. 8, line 18; col. 9, lines 43-65), Yamada also teaches a recording unit for recording the image data after interpolation on a recording medium (Fig. 1: 10) (Col. 7, lines 12-18). Yamada also discloses the use of a display unit for displaying the images data after interpolation (Col. 1, lines 28-39). In another embodiment (Fig. 20), Yamada teaches the image stored at the memory unit (Fig. 20: 54) memory being interpolated by the interpolation processing circuit (Fig. 20: 55) and writing the image data after interpolation in said memory unit (Col. 29, lines 1-11 and lines 46-61), also teaches that the interpolation calculation circuit comprises: a calculation section for calculating an interpolation position of a pixel (Col. 7, line 66 – col. 8, line 18), but does not explicitly teach or reasonably suggest an interpolation coefficient table storing an interpolation coefficient; a correction section for correcting the interpolation position so as to correspond to the interpolation coefficient; and an interpolation

Art Unit: 2612

calculation section for interpolating the pixel using the interpolation coefficient for the corrected interpolation position.

Contact

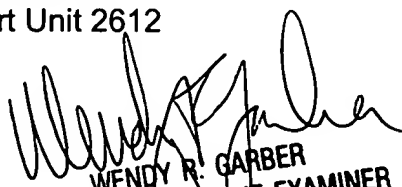
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson D. Hernandez whose telephone number is (703) 305-8717, [(571) 272-7311 after February 28, 2005]. The examiner can normally be reached on 8:30 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R. Garber can be reached on (703) 305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306, [(571) 272-7308 after February 28, 2005].

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NDHH
February 3, 2005

Nelson D. Hernandez
Examiner
Art Unit 2612


WENDY R. GARBER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600